



INSTRUCTION 202 CACHE 402 INSTRUCTION 406 POINTER 404 BRANCH PREDICTION DECODER UNIT 408 CONDITIONAL BRANCH PROCESSING UNIT 410 FETCH/DECODE UNIT REGUSTER ALIAS TABLE AND ALLOCATE UNIT 206 204 DISPATCH/BXOCUTE REORDER UNIT BUFFER F14. 4

FETCH/DECODE UNIT REDROSK BUPFER 206 ,502 PESERVATION STATION 1, 514 2 Ilmii Ilmii Ilmii 513 1/N 511 512 MEMORY FLOATING FLOATING INTEGER INTEGER POINT POINT INTERPACE EXECUTION EXECUTION BYECUTTON BLECTION GRECUTTON UNIT UNIT UNIT UNIT UNIT DISPATCH/EXECUTE UNIT 212 DATA CACHE F14.5

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600	CONDITION RESOLVED FOR CONDITIONAL MICRO-OPERATION ?
	VY69 1604
	DISPATCH CONDITIONAL MICRO-OPERATION TO APPROPRIATE EXECUTION UNIT
	2606
	PERFORM OPERATION DESIGNATED BY CONDITIONAL MICRO-OPERATION TO PRODUCE FIRST RESULT
'	V 608
PERFORI	M EXECUTION BYPASS OPERATION TO PRODUCE SECOND RESULT
	OUTPUT FIRST RESULT OR SECOND RESULT BASED ON HOW CONDITION WAS RESOLVED

REHSTER



DISPATCH CONDITIONAL MICRO-OPERATION TO APPROPRIATE EXECUTION UNIT

PERFORM OPERATION DESIGNATED BY CONDITIONAL MICRO-OPERATION TO PRODUCE FIRST RESULT

PERFORM EXECUTION BYPASS OPERATION TO PRODUCE SECOND RESULT

ASSOCIATE CONDITION FOR CONDITIONAL MICRO-OPERATION WITH BOTH FIRST AND SECOND RESULT

OUTPUT BOTH FIRST AND SECOND RESULT WITH ASSOCIATED CONDITION

900	2 902	
<u> </u>	DISPATCH MICRO-OPERATION DEPENDENT ON CONDITIONAL MICRO-OPERATION TO APPROPRIATE EXECUTION UNIT	904
-		707
-	OPERATION DESIGNATED BY DEPENDENT MICRO-OPERA NG FIRST RESULT OF CONDITIONAL MICRO-OPERATION TO PRODUCE THIRD RESULT	ATION
		N 906
	OPERATION DESIGNATED BY DEPENDENT MICRO-OPERA G SECOND RESULT OF CONDITIONAL MICRO-OPERATION TO PRODUCE FOURTH RESULT	
		908

OUTPUT BOTH THIRD AND FOURTH RESULT WITH ASSOCIATED CONDITION

ASSOCIATE CONDITION FOR CONDITIONAL MICRO-OPERATION WITH BOTH THIRD AND FOURTH RESULT

1000 1011 1012 |REGISTER| REGISTER 1021 1031 1034 1041 RESULT RESULT